

D. Johansen

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MAY 04 2001

Page 1 of 7

#6

1655

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/525,361

DATE: 04/24/2001

TIME: 13:18:49

Input Set : A:\A67860-3.app

Output Set: N:\CRF3\04242001\I525361.raw

P.S

ENTERED

3 <110> APPLICANT: MACK, DAVID  
4 GISH, KURT  
6 <120> TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSING AND TREATING BREAST CANCER,  
7 COMPOSITIONS, AND METHODS OF SCREENING FOR BREAST  
8 CANCER MODULATORS  
10 <130> FILE REFERENCE: A-67860-3/DJB/JJD  
12 <140> CURRENT APPLICATION NUMBER: US 09/525,361  
13 <141> CURRENT FILING DATE: 2000-03-15  
15 <150> PRIOR APPLICATION NUMBER: US 09/268,865  
16 <151> PRIOR FILING DATE: 1999-03-15  
18 <150> PRIOR APPLICATION NUMBER: US 09/450,810  
19 <151> PRIOR FILING DATE: 1999-11-29  
21 <150> PRIOR APPLICATION NUMBER: US 09/453,137  
22 <151> PRIOR FILING DATE: 1999-12-02  
24 <150> PRIOR APPLICATION NUMBER: US 09/439,878  
25 <151> PRIOR FILING DATE: 1999-11-12  
27 <150> PRIOR APPLICATION NUMBER: US 09/440,370  
28 <151> PRIOR FILING DATE: 1999-11-12  
30 <150> PRIOR APPLICATION NUMBER: US 09/440,493  
31 <151> PRIOR FILING DATE: 1999-11-15  
33 <150> PRIOR APPLICATION NUMBER: US 09/520,478  
34 <151> PRIOR FILING DATE: 2000-03-08  
36 <150> PRIOR APPLICATION NUMBER: US 09/440,676  
37 <151> PRIOR FILING DATE: 1999-11-16  
39 <150> PRIOR APPLICATION NUMBER: US 09/440,677  
40 <151> PRIOR FILING DATE: 1999-11-16  
42 <160> NUMBER OF SEQ ID NOS: 53  
44 <170> SOFTWARE: PatentIn Ver. 2.1  
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54 cctacttcag ccccttggtg tgagcagctt ctcaacatga actacagcct ccacttggcc 180  
55 ttcgtgtgtc tgagtctctt cactgagagg atgtgcatcc aggggagtca gttcaacgtc 240  
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68 gattcagtc cgtcaagaac ctgcattgga gtgacgaccg tgttatcaat gaccacactg 1020
69 atgatcgggt cccgcacttc tcttcccaac accaactgct tcatcaaggc catcgatgtg 1080
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73 gccagcattg aaatttccag cgacaacggt gactacagtg acttgacaat gaaaaccagc 1320
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117 tttgagaacc tcacagcagg atataacaaa tttctcaggc ccaatttttg tggagaacct 180

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121 tacattgtgg agtccaagaa gtccttcctc catgaagtca ctgtgggaaa caggctcatc 420
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125 ggactggaac acctgcggct tgctcagtac accatagagc ggtatttcac cttagtcacc 660
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135 aggattgttg attatttcac aattcaaaac cccagtaatg ttgatcacta ttccaaacta 1260
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150 20 25 30
151
152 Ser Asp Lys Leu Ser Leu Pro Gly Phe Glu Asn Leu Thr Ala Gly Tyr
153 35 40 45
154
155 Asn Lys Phe Leu Arg Pro Asn Phe Gly Gly Glu Pro Val Gln Ile Ala
156 50 55 60
157
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159 65 70 75 80
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161 Asp Tyr Thr Ala Thr Ile Tyr Leu Arg Gln Arg Trp Met Asp Gln Arg
162 85 90 95
163
164 Leu Val Phe Glu Gly Asn Lys Ser Phe Thr Leu Asp Ala Arg Leu Val
165 100 105 110
166
167 Glu Phe Leu Trp Val Pro Asp Thr Tyr Ile Val Glu Ser Lys Lys Ser
168 115 120 125
169
170 Phe Leu His Glu Val Thr Val Gly Asn Arg Leu Ile Arg Leu Phe Ser
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173 Asn Gly Thr Val Leu Tyr Ala Leu Arg Ile Thr Thr Thr Val Ala Cys
174 145 150 155 160
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176 Asn Met Asp Leu Ser Lys Tyr Pro Met Asp Thr Gln Thr Cys Lys Leu
177 165 170 175
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179 Gln Leu Glu Ser Trp Gly Tyr Asp Gly Asn Asp Val Glu Phe Thr Trp
180 180 185 190

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185 Gln Tyr Thr Ile Glu Arg Tyr Phe Thr Leu Val Thr Arg Ser Gln Gln
186      210      215      220
188 Glu Thr Gly Asn Tyr Thr Arg Leu Val Leu Gln Phe Glu Leu Arg Arg
189 225      230      235      240
191 Asn Val Leu Tyr Phe Ile Leu Glu Thr Tyr Val Pro Ser Thr Phe Leu
192      245      250      255
194 Val Val Leu Ser Trp Val Ser Phe Trp Ile Ser Leu Asp Ser Val Pro
195      260      265      270
197 Ala Arg Thr Cys Ile Gly Val Thr Thr Val Leu Ser Met Thr Thr Leu
198      275      280      285
200 Met Ile Gly Ser Arg Thr Ser Leu Pro Asn Thr Asn Cys Phe Ile Lys
201      290      295      300
203 Ala Ile Asp Val Tyr Leu Gly Ile Cys Phe Ser Phe Val Phe Gly Ala
204 305      310      315      320
206 Leu Leu Glu Tyr Ala Val Ala His Tyr Ser Ser Leu Gln Gln Met Ala
207      325      330      335
209 Ala Lys Asp Arg Gly Thr Thr Lys Glu Val Glu Glu Val Ser Ile Thr
210      340      345      350
212 Asn Ile Ile Asn Ser Ser Ile Ser Ser Phe Lys Arg Lys Ile Ser Phe
213      355      360      365
215 Ala Ser Ile Glu Ile Ser Ser Asp Asn Val Asp Tyr Ser Asp Leu Thr
216      370      375      380
218 Met Lys Thr Ser Asp Lys Phe Lys Phe Val Phe Arg Glu Lys Met Gly
219 385      390      395      400
221 Arg Ile Val Asp Tyr Phe Thr Ile Gln Asn Pro Ser Asn Val Asp His
222      405      410      415
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228      435      440
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TIME: 13:18:49

Input Set : A:\A67860-3.app

Output Set: N:\CRF3\04242001\I525361.raw

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265 tgcgcgacgc agggcgctgg gccgggtttc ggcttcggcc acagcttttt ttctcaagg 180
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268 gctgaatttg aggatgtcat ggaagactct gttactgaat ctctcaacg ggtcataatc 360
269 actgaagatg atgaagatga gaccactgtg gagttggaag ggcaggatga aaaccaagaa 420
270 ggagattttg aagatgcaga taccaggagg ggagatactg agagtgaacc atatgatgat 480
271 gaagaatttg aaggttatga agacaaacca gatacttctt ctagcaaaaa taaagaccca 540
272 ataacgattg ttgatgttcc tgcacacctc cagaacagct gggagagtta ttatctagaa 600
273 attttgatgg tgaactgtct gcttgcttat atcatgaatt acatcattgg gaagaataaa 660
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/525,361

DATE: 04/24/2001

TIME: 13:18:50

Input Set : A:\A67860-3.app

Output Set: N:\CRF3\04242001\I525361.raw

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L:1175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32  
L:1796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38  
L:1883 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:2652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53